Inventor Search

Harle 10/070,660

02/12/2004

=> d ibib abs ind 13 1-2

ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:725629 HCAPLUS

DOCUMENT NUMBER:

140:123019

TITLE:

Anabolic and catabolic bone effects of human

parathyroid hormone (1-34) are predicted by duration

of hormone exposure

AUTHOR(S):

SOURCE:

Frolik, Charles A.; Black, Elwood C.; Cain, Ricky L.;

Satterwhite, Julie H.; Brown-Augsburger,

Patricia L.; Sato, Masahiko; Hock, Janet M.

CORPORATE SOURCE:

Lilly Research Laboratories Lilly Corporate Center, Eli Lilly and Company, Indianapolis, IN, 46285, USA Bone (San Diego, CA, United States) (2003), 33(3),

372-379

CODEN: BONEDL; ISSN: 8756-3282

PUBLISHER:

Elsevier Science

DOCUMENT TYPE: LANGUAGE:

Journal English

Parathyroid hormone (PTH) (1-34), given once daily, increases bone mass in a variety of animal models and humans with osteoporosis. However, continuous PTH infusion has been shown to cause bone loss. To determine the pharmacokinetic profile of PTH(1-34) associated with anabolic and catabolic bone responses, PTH(1-34) pharmacokinetic and serum biochem. profiles were evaluated in young male rats using dosing regimens that resulted in either gain or loss of bone mass. Once-daily PTH(1-34) or 6 PTH(1-34) injections within 1 h, for a total daily dose of 80 μg/kg, induced equivalent increases in proximal tibia bone mass. In contrast, 6 PTH(1-34) injections/day over 6 h for a total dose of 80 $\mu g/kg/day$ or 3 injections/day over 8 h for a total of 240 µg/kg/day decreased tibia bone mass. The PTH(1-34) pharmacokinetics of the different treatment regimens were distinctive. The magnitude of the maximum serum concns. (Cmax) of PTH(1-34) and area under the curve (AUC) did not predict the catabolic bone outcome. Compared to the anabolic pharmacokinetic profile of a transient increase in PTH(1-34) with rapid decreases in serum calcium and phosphate, the catabolic regimen was associated with PTH(1-34) concns. remaining above baseline values during the entire 6-h dosing period with a trend toward an increase in serum calcium and a prolonged decrease in phosphate. The pharmacokinetic profiles suggest that the anabolic or catabolic response of bone to PTH(1-34) is determined primarily by the length of time each day that serum concns. of PTH(1-34) remain above baseline levels of endogenous PTH and only secondarily by the Cmax or AUC of PTH(1-34) achieved.

2-7 (Mammalian Hormones) CC

parathormone fragment anabolic catabolic bone hormone exposure ST

IT Bone

Bone formation

(anabolic and catabolic bone effects of parathyroid hormone prediction by duration of hormone exposure)

Mineral elements, biological studies IT

RL: BSU (Biological study, unclassified); BIOL (Biological study) (bone; anabolic and catabolic bone effects of parathyroid hormone prediction by duration of hormone exposure)

ΙT Bone

(minerals; anabolic and catabolic bone effects of parathyroid hormone prediction by duration of hormone exposure)

IT Bone

(resorption; anabolic and catabolic bone effects of parathyroid hormone prediction by duration of hormone exposure)

IT Bone

```
(tibia; anabolic and catabolic bone effects of parathyroid hormone
  prediction by duration of hormone exposure)
7440-70-2, Calcium, biological studies 52232-67-4, Human parathyroid
```

hormone(1-34)

RL: BSU (Biological study, unclassified); BIOL (Biological study) (anabolic and catabolic bone effects of parathyroid hormone prediction by duration of hormone exposure)

IT 14265-44-2, Phosphate, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study) (inorg.; anabolic and catabolic bone effects of parathyroid hormone prediction by duration of hormone exposure)

REFERENCE COUNT:

THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:229143 HCAPLUS

DOCUMENT NUMBER:

134:232284

TITLE:

IT

Method for monitoring treatment with a parathyroid

hormone

INVENTOR(S):

Hock, Janet M.; Satterwhite, Julie

PATENT ASSIGNEE(S): SOURCE:

Eli Lilly and Company, USA PCT Int. Appl., 135 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.						KIND		DATE							DATE			
	WO	0 2001022093				A1		20010329		WO 2000-US24745					20000911				
		W:	ΑE,	AG,	AL,	AM,	AT,	AT,	AU.	AZ.	BA.	BB.	BG.	BR.	RY	B7.		CH	
			CN,	CR,	CU,	CZ.	CZ.	DE,	DE.	DK.	DK.	DM	DZ,	EE.	EE,	EC,	ET,	СП, БТ	
			GB,	GD,	GE,	GH.	GM.	HR,	HU.	ID.	TI.	TN.	TS,	.TD	KE,	KC,	KD,	rr,	
			KR,	KZ,	LC.	LK.	LR.	LS,	LT.	LII.	LV.	MA AM	MD,	MG,	MK	MM	MIM	MV	
			MZ,	NO,	NZ.	PL.	PT.	RO,	RU.	SD.	SE,	SG.	ST.	SK	GK	CT.	TT.T	TIM.	
			TR,	TT.	TZ.	UA.	UG.	US,	UZ.	VN.	YII	ZΔ,	ZW	ΔM	Δ <i>Γ</i> ,	BV,	KC,	111, 127	
			MD,	RU,	TJ.	TM	,	0.0,	,	***,	10,	<i>a.</i> ,	۵۱۱,	т,	A4,	ы,	KG,	NΔ,	
		RW:	-				MW.	MZ,	SD	ST.	97	TZ.	ΠC	วพ	λT	יזם	CH	CV	
			DE.	DK.	ES.	FI.	FR.	GB,	GP,	TE,	TT	T.TT	MC	MIT.	MI,	CE,	CH,	CI,	
			CF.	CG.	CT.	CM	GA,	GN,	GW,	MT.	MD,	NE,	CNT	иг,	TC,	ъĿ,	Dr,	ы,	
	CA	2387	693	00,	C1,	ΔΔ	Un,	2001	011,	17111,	יאנין	VVV ,	, MIG	1D,	16	2.	0000	011	
	EP 1222465				A1 20020717			CA 2000-2387693 EP 2000-961713					20000911						
		R:	AT.	BE.	CH	DE	את	ES,	FD.	GR .	GD GD	T70	701/. 77	T TT	NTT	21 00	Ma	D.T.	
			TE.	SI.	LT.	L.V	FT.	RO,	MK	CV,	OΛ,	11,	шт,	шυ,	иL,	SE,	MC,	PT,	
PRIO	RITY	Z APP				ш,	ΙΙ,	ĸ,		-		000	1 = 4 0 1	700			2000	224	
PRIORITY APPLN. INFO.: US 1999-154879P US 1999-156803P																			
															_				
												000-1					00004		
AB	The	pres	sent	inve	ent i c	n re	1 a t	AC +/	n			7-000					00009		

AB The present invention relates to a method for monitoring effects of administration of a parathyroid hormone by determining levels of one or more markers of an activity of this hormone. Suitable markers of bone formation include one or more enzymes indicative of osteoblastic processes of bone formation, preferably bone specific alkaline phosphatase, and/or one or more products of collagen biosynthesis, preferably a procollagen I C-terminal propeptide. Suitable markers of bone resorption and turnover include one or more products of collagen degradation, preferably an N-terminal telopeptide (NTX). In addition, methods for concurrently reducing the risk of both vertebral and non-vertebral bone fracture in a male human subject at risk of or having osteoporosis are also disclosed, involving

administration of human parathyroid hormone (amino acid sequence 1-34) without concurrent administration of an antiresorptive. agent other than vitamin D or calcium. A kit for monitoring an effect of administration of parathyroid hormone to subject is claimed, as is an article of manufacture comprising packaging material and a pharmaceutical composition comprising human PTH (1-34) is also claimed.

IC ICM G01N033-68

ICS A61K038-29; A61P019-10; C12Q001-42

CC 2-1 (Mammalian Hormones)

parathyroid hormone therapy osteoporosis monitoring method

Collagens, analysis

RL: ANT (Analyte); ANST (Analytical study)

(N-terminal telopeptide; method for monitoring osteoporosis treatment with a parathyroid hormone by determining markers of hormone activity)

IT Bone, disease

(fracture; method for treating male subjects at risk for bone fractures using parathyroid hormone)

IT Reproductive tract

(hypogonadism; method for treating male subjects at risk for bone fractures resulting from a hypogonadal condition using parathyroid hormone)

IT Bone formation

Osteoporosis

Urine analysis

(method for monitoring osteoporosis treatment with a parathyroid hormone by determining markers of hormone activity)

IT Aging, animal

Sex

(method for monitoring osteoporosis treatment with a parathyroid hormone by determining markers of hormone activity adjusted for age and gender)

Hormone replacement therapy IT

(method for monitoring osteoporosis treatment with a parathyroid hormone in the presence of hormone replacement therapy or therapy with an antiresorptive agent)

ΙT Collagens, analysis

RL: ANT (Analyte); ANST (Analytical study) (procollagens, type I, C-terminal propeptide; method for monitoring osteoporosis treatment with a parathyroid hormone by determining markers of hormone activity)

Collagens, analysis IT

RL: ANT (Analyte); ANST (Analytical study)

(products of collagen biosynthesis or degradation; method for monitoring osteoporosis treatment with a parathyroid hormone by determining markers of hormone activity)

IT Bone

> (resorption, inhibitors; method for monitoring osteoporosis treatment with a parathyroid hormone in the presence of hormone replacement therapy or therapy with an antiresorptive agent)

IT Spinal column

(vertebra, fracture; method for treating male subjects at risk for bone fractures using parathyroid hormone)

9001-78-9 83462-55-9, Deoxypyridinoline ITRL: ANT (Analyte); ANST (Analytical study)

(method for monitoring osteoporosis treatment with a parathyroid hormone by determining markers of hormone activity)

9002-64-6, Parathyroid hormone 52232-67-4, Human parathyroid ΙT hormone (1-34)

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(method for monitoring osteoporosis treatment with a parathyroid hormone by determining markers of hormone activity)

IT 129318-43-0, Fosamax

8

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(method for monitoring osteoporosis treatment with a parathyroid hormone in the presence of hormone replacement therapy or therapy with an antiresorptive agent)

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT